Form 1449 (modified)	Docket: 093/004	U.S.S.N. *To be assigned*
Information Disclosure Statement By Applicant	Title: Hepatocyte Lineage Cells Derived from Pluripotent Stem Cells Inventors: Rambhatla, L., et al.	
(Use Several Sheets if Necessary)	Filing Date: October 31, 2001	Group: *To be assigned* 1632

JC675 U.S. PTO 10/001267 10/31/01

U.S. Patent Documents

Examiner Initial	Ref.	Patent No.	Filing Date	Issue Date	Class/ Subclass	Inventors:	Title:
TNT	A	5,030,105	11/15/89	7/9/91	435/29	Kuri-Harcuch, W., et al.	Process For The Long-Term Surviving Culture Of Hepatocytes
	B	5,532,156	10/8/93	7/2/96	435/240.2	Talbot, N., et al.	Hepatocyte Cell Line Derived From The Epiblast Of Pig Blastocysts
	C	5,559,022	1/26/95	9/24/96	435/240.2	Naughton, B.A., et al.	Liver Reserve Cells
	D	5,576,207	6/24/94	11/19/96	435/240.2	Reid, L.M., et al.	Method O Expanding Hepatic Precursor Cells
	E	5,763,255	1/25/95	6/9/98	435/240.23	Swiderek, M.S., et al.	Inducing Epithelial Cell Differentiation With Dried Native Fibrillar Collagen
	F	5,869,243	3/5/96	2/9/99	435/6	Jauregui, H.O., et al.	Immortalized Hepatocytes
TNT	G	6,017,760	10/10/95	1/25/00	435/378	Jauregui, H.O., et al.	Isolation and Culture Of Porcine Hepatocytes

Foreign Patent or Published Foreign Patent Application

Examiner Initial	Ref.	Document No.	Publ. Date	Juris-diction	Title:	Translation Yes	Translation No
TNT	H	WO 95/12665	5/11/95	PCT	Embryonic Stem Cells Capable Of Differentiating Into Desired Cell Lines		
	I	WO 97/47307	12/18/97	PCT	Use Of Histone Deacetylase Inhibitors To Activate Transgene Expression		
	J	EP 0 827 742 A1	3/11/98	EP	Use Of Histone Deacetylase Inhibitors For Treating Fribosis Or Cirrhosis		
	K	EP 0 827 743 A1	3/11/98	EP	Use Of Histone Decarboxylase Inhibitors For Treating Fibrosis		
	L	WO 99/23885	5/20/99	PCT	Methods For The Use Of Inhibitors Of Co-Repressors For The Treatment Of Neoplastic Diseases		
	M	WO 99/37150	7/29/99	PCT	Transcription Therapy For Cancers		
	N	EP 0 953 633 A1	11/3/99	EP	Cell Culturing Method And Medium For Producing Proliferated, Normal, Differentiated Human Liver Cells		
	O	WO 00/03001	1/20/00	PCT	Liver Stem Cell		
	P	WO 00/18239	4/6/00	PCT	Reversibly Immortalized Hepatocytes And Methods Of Use		
	Q	WO 00/22098	4/20/00	PCT	Porcine Oocytes with Improved Developmental Competence		
TNT	R	WO 00/43498	7/27/00	PCT	Human Liver Progenitors		

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Other Documents

Examiner Initial	Ref.	Author, Title, Source, Date
TNT	S	Adams, R.M., et al., "Effective cryopreservation and long-term storage of primary human hepatocytes with recovery of viability, differentiation, and replicative potential", *Cell Transplantation*, 4(6):579-586 (1995)
	T	Agelli, M., et al., "Putative liver progenitor cells: conditions for long-term survival in culture", *Histochemical Jounral*, 29:205-217 (1997)
	U	Alison, M., "Liver stem cells: a two compartment system", *Cell Biology*, 10:710-715 (1998)
	V	Baribault, H., et al., "Dexamethasone and dimethylsulfoxide as distinct regulators of growth and differentiation of cultured suckling rat hepatocytes", *J Cell Physiol*, 129(1):77-84 (1986)
	W	Block, G.D., et al., "Population expansion, clonal growth, and specific differentiation patterns in primary cultures of hepatocytes induced by HGF/SF, EGF and TGFα in a chemically defined (HGM) medium", *J Cell Blo.*, 132(6)1133-1149 (1996)
	X	Blouin, MJ., et al., "Specialization switch in differentiating embryonic rat liver progenitor cells in response to sodium butyrate", *Exp Cell Res*, 217(1):22-30 (1995)
	Y	Brill, S., et al., "Expansion conditions for early hepatic progenitor cells from embryonal and neonatal rat livers", *Dig Diseases & Sci*, 44(2):364-371 (2/99)
	Z	Buommino, E., et al., "Sodium butyrate/retinoic acid costimulation induces apoptosis-independent growth arrest and cell differentiation in normal and ras-transformed seminal vesicle epithelial cells unresponsive to retinoic acid", *J Mol Endocrinol* 24(1):83-94 (2/00)
	AA	Chen, WY., et al., "Reactivation of silenced, virally transduced genes by inhibitors of histone deacetylase", *Proc. Natl. Acad. Sci. USA*, 94:5798-5803 (5/97)
	AB	Coghlan, A., "Highly Cultured", *New Scientist*, Aug. 19, 2000
	AC	Coleman W.B., et al., "Development of dexamethasone-inducible tyrosine aminotransferase activity in WB-F344 rat liver epithelial stemlike cells cultured in the presence of sodium butyrate", *J Cell Physiol*, 161(3):463-469 (12/94)
	AD	Davis, MG., et al., "Involvement of gialpha2 in sodium butyrate-induced erythroblastic differentiation of K562 cells", *Biochem J*, 1(346)Pt2:455-461 (3/00)
	AE	Devereux, T.R., et al., "DNA methylation analysis of the promoter region of the human telomerase reverse transcriptase (hTERT) gene", *Cancer Research*, 59:6087-6090,(12/99)
	AF	Enat, R., et al., "Hepatocyte proliferation in vitro: Its dependence on the use of serum-free hormonally defined medium and substrata of extracellular matrix", *Proc. Natl. Acad. Sci. USA*, 81:1411-1415 (3/84)
	AG	Engelmann, G.L., et al., "Effect of sodium butyrate on primary cultures of adult rat hepatocytes", *In Vitro Cell Dev Biol.*, 23(2):86-92 (2/87)
	AH	Falasca, L., et al., "The effect of retinoic acid on the re-establishment of differentiated hepatocyte phenotype in primary culture", *Cell Tissue Res.*, 293:337-347 (1998)
	AI	Germain, L., et al., "Biliary epithelial and hepatocytic cell lineage relationships in embryonic rat liver as determined by the differential expression of cytokeratins, α-fetoprotein, albumin, and cell surface-exposed components" *Cancer Res*, 48:4909-4918 (9/88)
	AJ	Germain, L., et al., "Promotion of growth and differentiation of rat ductular oval cells in primary culture", *Cancer Res*, 48(2):368-378 (1988)
	AK	Gillenwater, A., et al., "Effects of sodium butyrate on growth, differentiation, and apoptosis in head and neck squamous carcinoma cell lines", *Head Neck*, 22(3):247-256 (5/00)
	AL	Gladhaug, I.P., et al., "Effects of butyrate on epidermal growth factor receptor binding, morphology, and DNA synthesis in cultured rate hepatocytes", *Cancer Res*, 48(22):6560-6564 (11/15/88)
	AM	Graham, K.A., et al., "Sodium butyrate induces differentiation in breast cancer cell lines expressing the estrogen receptor", *J Cell Physiol*, 136(1):63-71 (7/88)
TNT	AN	Grisham, J.W., et al., "Liver stem cells", *Stem Cells*, 233-282 (1997)

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Information Disclosure Statement By Applicant	Title: Hepatocyte Lineage Cells Derived from Pluripotent Stem Cells Inventors: Rambhatla, L., et al.	
(Use Several Sheets if Necessary)	Filing Date: October 31, 2001	Group: ~~*To be assigned*~~ 1632

JG615 U.S. PTO 10/001267 10/31/01

Examiner Initial	Ref.	Author, Title, Source, Date
TNT	AO	Guixiang, T., et al., "Different effects of cyclic AMP and butyrate on eosinophilic differentiation, apoptosis and bcl-2 expression of a human eosinophilic leukemia cell line, EoL-1", *Hematol Oncol*, **14**(4):181-92 (12/96)
	AP	Jeng, J.H., et al., "Effects of butyrate and propionate on the adhesion, growth, cell cycle kinetics, and protein synthesis of cultured human gingival fibroblasts", *J Periodontol*, **70**(12):1435-1442 (12/99)
	AQ	Kamitani, H., et al., "Regulation of 12-lipoxygenase in rat intestinal epithelial cells during differentiation and apoptosis induced by sodium butyrate", *Arch Biochem Biophys*, **368**(1):45-55 (8/1/99)
	AR	Kosugi, H., et al., "Histone deacetylase inhibitors are the potent inducer/enhancer of differentiation in acute myeloid leukemia: a new approach to anti-leukemia therapy", *Leukemia*, **13**:1316-1324 (1999)
	AS	Lazaro, C.A., et al., "Generation of hepatocytes from oval cell precursors in culture", *Cancer Res*, **58**:5514-5522 (12/1/98)
	AT	Li, J., et al., "Mammalian hepatocyte differentiation requires the transcription factor HNF-4α", *Genes & Dev*, **14**:464-474 (2000)
	AU	Matsui, T., et al., "Induction of catecholamine synthesis in human neuroblastoma cells by replication inhibitors and sodium butyrate", *Brain Res*, **843**(1-2):112-117 (10/2/99)
	AV	McBain, J., et al., "Apoptotic death in adenocarcinoma cell lines induced by butyrate and other histone deacetylase inhibitors", *Biochem Pharm*, **53**:1357-1368 (1997)
	AW	Michalopoulos, G.K., et al., "Morphogenetic events in mixed cultures of rat hepatocytes and nonparenchymal cells maintained in biological matrices in the presence of hepatocyte growth factor and epidermal growth factor", *Hepatology*, **29**(1):90-100 (1999)
	AX	Mitaka, T., et al., "Redifferentiation of proliferated rat hepatocytes cultured in L15 medium supplemented with EGF and DMSO", *In Vitro Cell Dev. Biol.*, **29A**:714-722 (9/93)
	AY	Mitaka, T., "The current status of primary hepatocyte culture", *Int. J. Exp. Path*, **79**:393-409 (1998)
	AZ	Niki, T., et al., "A histone deacetylase inhibitor, trichostatin A, suppresses myofibroblastic differentiation of rat hepatic stellate cells in pimary culture", *Hepatology*, **29**(3):858-867 (1999)
	BA	Pack, R., et al., "Isolation, biochemical characterization, long-term culture, and pheotype modulation of oval cells from carcinogen-fed rats", *Exp Cell Res*, **204**(2):198-209 (1993)
	BB	Pagan, R., et al., "Effects of growth and differentiation factors on the epithelial-mesenchymal transition in cultured neonatal rat hepatocytes", *J of Hepatology*, **31**:859-904 (1999)
	BC	Perez, R., et al., "Sodium butyrate upregulates Kupffer cell PGE2 production and modulates immune function", *J Surg Res*, **78**(1):1-6 (7/15/98)
	BD	Perrine, SP., et al., "A short-term trial of butyrate to stimulate fetal-globin-gene expression in the beta-globin disorders", *N Engl J Med*, **328**(2):81-86, (1/14/93)
	BE	Perrine, SP., et al., "Butyrate derivatives. New agents for stimulating fetal globin production in the beta-globin disorders", *Am J Pediatr Hemotol Oncol*, **16**(1):67-71 (2/94)
	BF	Reynolds, S., et al., "Differentiation-inducing effect of retinoic acid, difluoromethylornithine, sodium butyrate and sodium suramin in human colon cancer cells", *Cancer Lett*, **134**(1):53-60 (12/11/98)
	BG	Rivero JA., et al., "Sodium butyrate stimulates PKC activation and induces differential expression of certain PKC isoforms during erythroid differentiation", *Biochem Biophys Res Commun*, **248**(3):664-668 (7/30/98)
	BH	Rocchi, P., et al., "Effect of butyrate analogues on proliferation and differentiation in human neuroblastoma cell lines", *Anticancer Res*, **18**(2A):1099-103 (3/98)
	BI	Rogler, LE., "Selective bipotential differentiation of mouse embryonic hepatoblasts in vitro", *Am J Pathol*, **150**(2):591-602 (1997)
TNT	BJ	Runge, D., et al., "STAT 1 alpha/1 beta, STAT 3 and STAT 5: Expression and Association with c-MET and EGF-Receptor in Long-Term Cultures of Human Hepatocytes", *Biochemical and Biophysical Research Communications*, **265**:376-381 (1999)

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Form 1449 (modified)	Docket: 093/004	U.S.S.N. *To be assigned*
Information Disclosure Statement By Applicant	Title: Hepatocyte Lineage Cells Derived from Pluripotent Stem Cells Inventors: Rambhatla, L., et al.	1632
(Use Several Sheets if Necessary)	Filing Date: October 31, 2001	Group: ~~*To be assigned*~~

JC675 U.S. PTO
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10/31/01

Examiner Initial	Ref.	Author, Title, Source, Date
TNT	BK	Saito, H., et al., "Differentiating effect of sodium butyrate on human hepatoma cell lines PLC/PRF/5, HCC-M and HCC-T", *Int J Cancer*, 48(2):291-296 (5/10/91)
	BL	Sanchez, A., et al., "Transforming growth factor-B (TGF-B) and EGF promote cord-like structures that indicate terminal differentiation of fetal hepatocytes in primary culture", *Exp Cell Res*, 242:27-37 (1998)
	BM	Schultz, RM., et al., "Reprogramming of gene expression during preimplantation development", *J of Exp Zoology (Mol Dev Evol)*, 285:276-282 (1999)
	BN	Siavoshian, S., et al., "Butyrate and trichostatin A effects on the proliferation/differentiation of human intestinal epithelial cells: induction of cyclin D3 and p21 expression", *Gut*, 46(4):507-14 (4/2000)
	BO	Simon, B., et al., "Transient transcriptional activation of gastrin during sodium butyrate-induced differentiation of islet cells", *Regul Pept*, 70(2-3):143-8 (6/18/97)
	BP	Staecker, JL., et al., "Stimulation of DNA synthesis in primary cultures of adult rat hepatocytes by sodium butyrate", *Biochem Biophys Res Commun*, 147(1):78-85 (8/87)
	BQ	Staecker, JL., et al., "The effect of sodium butyrate on tyrosine aminotransferase induction in primary cultures of normal adult rat hepatocytes", *Arch Biochem Biophys*, 261(2):291-8 (3/88)
	BR	Staecker, JL., et al., "Sodium butyrate preserves aspects of the differentiated phenotype of normal adult rat hepatocytes in culture", *J Cell Physiol*, 135(3):367-76 (1988)
	BS	Strain, A., "Ex vivo liver cell morphogenesis: one step nearer to the bioartificial liver", *Hepatology*, 29(1):288-290 (1/99)
	BT	Sun, SH., et al., "Altered phospholipid metabolism in sodium butyrate-induced differentiation of C6 glioma cells", *Lipids*, 32(3):273-82 (3/97)
	BU	Tamagawa, K., et al., "Proanthocyanidins from barley bran potentiate retinoic acid-induced granulocytic and sodium butyrate-induced monocytic differentiation of HL60 cells", *Biosci Biotechnol Biochem*, 62(8):1483-7 (8/98)
	BV	Tanaka, T., et al., "Adenovirus-mediated prodrug gene therapy for carcinoembryonic antigen-producing human gastric carcinoma cells in vitro", *Cancer Res*, 56(6):1341-5 (3/96)
	BW	Tateno, C., et al., "Growth and differentiation of adult rat hepatocytes regulated by the interaction between parenchymal and non-parenchymal liver cells", *J of Gasto and Hepatology*, 13:S83-92 (1998)
	BX	Tateno, C., et al., "Growth potential and differentiation capacity of adult rat hepatocytes in vitro", *Wound Repair and Regeneration*, 7(1):36-44 (1999)
	BY	Wang, G., et al., "Transforming growth factor-beta 1 acts cooperatively with sodium n-butyrate to induce differentiation of normal human keratinocytes", *Exp Cell Res*, 198(1):27-30 (1/92)
	BZ	Watkins, SM., et al., "Butyric acid and tributyrin induce apoptosis in human hepatic tumour cells", *J Dairy Res*, 66(4):559-67 (11/99)
	CA	Yabushita, H., et al., "Effects of sodium butyrate, dimethylsulfoxide and dibutyryl cAMP on the poorly differentiated ovarian adenocarcinoma cell line AMOC-2", *Oncol Res*, 5(4-5):173-82 (1993)
	CB	Yamada, K., et al., "Effects of butyrate on cell cycle progression and polyploidization of various types of mammalian cells", *Biosci Biotechnol Biochem*, 56(8):1261-5 (8/92)
	CC	Yoon, J-H., et al., "Augmentation of Urea-synthetic Capacity by Inhibition of Nitric Oxide Synthesis in Butyrate-Induced Differentiated Human Hepatocytes", *FEBS Letters*, 474:175-178 (2000)
	CD	Yoon, J-H., et al., "Development of a non-transformed human liver cell line with differentiated-hepatocyte and urea-synthetic functions: applicable for bioartificial liver", *Int. J. of Artifical Organs*, 22:769-777(1999)
✓	CE	Yoshizawa, T., et al., "Dimethylsulfoxide maintains intercellular communication by preserving the gap junctional protein connexin32 in primary cultured hepatocyte doublets from rats", *J of Gastro and Hepat*, 12:325-330 (1997)
TNT	CF	Zvibel, I., et al., "Phenotypic characterization of rat hepatoma cell lines and lineage-specific regulation of gene expression by differentiation agents", *Differentiation*, 63:215-223 (1998)

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Form 1449 (modified)	Docket: 093/004P Suppl	U.S.S.N. 10/001,267
Information Disclosure Statement By Applicant	Title: PROCESS FOR MAKING HEPATOCYTES FROM PLURIPOTENT STEM CELLS Inventors: Lakshmi Rambhatla, Melissa K. Carpenter	
	Filing Date: October 31, 2001	Group: 1632

U.S. Patent Documents

Examiner Initial	Ref.	Patent No.	Filing Date	Issue Date	Class/ Subclass	Inventors:	Title:
NONE							

Foreign Patent or Published Foreign Patent Application

Examiner Initial	Ref.	Document No.	Publ. Date	Juris-diction	Title:	Translation
NONE						

Other Documents

Examiner Initial	Ref.	Author, Title, Date, Source
TNT	DA	Kaneko et al., Alteration of Differentiation State of Human Hepatocytes Cultured with Novobiocin and Butyrate, Cancer Res 50:3101 (1990)
	DB	Kobayashi et al., Establishment of a Highly Differentiated Immortalized Human Hepatocyte Cell Line as a Source of Hepatic Function in the Bioartificial Liver, Transplantation Proceedings 32:237 (2000)
	DC	Koutsovelkidis et al., Butyrate Inhibits and Excherichia Coli-Derived Mitogen(s) Stimulate DNA Synthesis in Human Hepatocytes In Vitro, Prep Biochem & Biotechnol 29:121 (1999)
	DD	Masuda et al., Up-Regulation of E-Cadherin and β-Catenin in Human Hepatocellular Carcinoma Cell Lines by Sodium Butyrate and Interfereon, In Vitro Cell Dev Biol – Animal 36:387 (2000)
	DE	Saito et al., Effect of Dexamethasone, Dimethylsulfoxide and Sodium Butyrate on a Human Hepatoma Cell Line PLC?PRF/5, Cancer Biochem Biophys 13:75 (1992)
	DF	Saito et al., Changes of Antigen Expression on Human Hepatoma Cell Lines Caused by Sodium Butyrate, a Differentiation Inducer, J Gastroenterol 29:733 (1994)
	DG	Yoon et al., Development of a Non-Transformed Human Liver Cell Line with Differentiated-Hepatocyte and Urea-Synthetic Functions: Applicable for Bioartificial Liver, 22:796 (1999)
TNT	DH	Yoon et al., Augmentation of Urea-Synthetic Capacity by Inhibition of Nitric Oxide Synthesis in Butyrate-Induced differentiated Human Hepatocytes, FEBS Letters 474:175 (2000)

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